

# MINIMUM TREE SIZE REQUIREMENTS

Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper
X					X					ARGENTINE MESQUITE (M)(PROSOPIS ALBA)	15	5	3	0.75	VELVET\ARIZONA (M) (PROSOPIS VELUNTINA)	15	5.5	3	0.5	SONORAN (CERCIDIUM PRAECOX)	15	6	2	0.75
BLUE LEAF WATTLE (ACACIA SALIGNA)	15	6	2	0.75	WEeping (ACACIA PENDULA)	15	5	2	0.75		24	8	5	1.25		24	7	4	1		24	7	4	1.5
	24	8	4	1.5		24	6.5	3	1.5		30	9	7	1.5		30	9	6	1.5		30	8	6	2
	30	10	5	2		30	9	5	2		36	11	9	2		36	10	8	2		36	10	8	2.5
	36	12	6	2.5		36	11	6	2.5		42	13	11	2.5		42	12	10	2.5		42	11	10	3
BERLANDER\GUAYILLO (M)(ACACIA BERLANDIER)	15	4	2	0.5	WILLOW\ AUSTRALIAN WILLOW (ACACIA SALICINA)	15	6	2	0.75		48	15	13	3		48	14	12	3		48	12	12	3.5
	24	5	4	1		24	8	4	1.5	X					X					SONORAN(M) (CERCIDIUM PRAECOX)	15	5	2	0.5
	30	7	5	1.5		30	10	5	2	CHILEAN MESQUITE (PROSOPIS CHILENSIS)	15	6	2	0.75	BLUE PALO VERD (CERCIDIUM FLORIDIUM)	15	6	2	0.75		24	7	4	1
	36	9	6	2		36	14	6	2.5		24	8	4	1.25		24	7.5	4	1.5		30	8	6	1.5
MULGA (ACACIA ANEURA)	15	5	2	0.75							30	9	6	1.5		30	9	7	2		36	10	8	2
	24	7	4	1.5	X						36	10	8	2		36	10	8	2.5		42	11	10	2.5
	30	9	6	2	DESERT IRONWOOD (OLNEYA TESOTA)	15	3	2	0.5		42	12	10	2.5		42	12	9	3		48	12	12	3
	36	10	8	2.5		24	6	3	1.25		48	14	12	3		48	14	10	3.5	X				
SHOESTRING (ACACIA STENOPHYLLA)	15	7	2.5	0.75		30	8	6	2	CHILEAN MESQUITE (PROSOPIS CHILENSIS)	15	5	3	0.5	BLUE PALO VERD (M) (CERCIDIUM FLORIDIUM)	15	5	3	0.5	AFRICAN SUMAC (RHUS LANCEA)	15	7	2	0.75
	24	9	4	1.5		36	10	8	2.5		24	8	5	1		24	7	4	1		24	9	4	1.25
	30	11	5	2		42	11	9	3		30	9	7	1.5		30	8	6	1.5		30	11	6	2
	36	13	6	2.5		48	12	10	3.5		36	10	9	2		36	10	8	2		36	12	8	2.5
	42	15	7	3	DESERT IRONWOOD (M) (OLNEYA TESOTA)	15	3	2	0.5		42	12	11	2.5		42	12	9	2.5		42	14	8	3.5
	48	17	8	4		24	6	3	1.25		48	14	13	3		48	14	11	3		48	15	9	4
SHOESTRING (M) (ACACIA STENOPHYLLA)	15	7	2.5	.5		30	8	6	2	HONEY MESQUITE (PROSOPIS-GLANDULOSA)	15	6	2	0.75	BLUE PALO VERD (M) (CERCIDIUM FLORIDIUM)	15	4	2	0.5	AFRICAN SUMAC (M) (RHUS LANCEA)	15	5	3	0.75
	24	9	4	1		36	10	8	2.5		24	8	4	1.5		24	6	3	1		24	8	4.5	1
	30	13	6	2		42	11	9	3		30	9	6	2		30	7	5	1.5		30	9	7	1.5
SWEET (ACACIA SMALLI)	15	6	2.5	0.75		48	12	10	3.5		36	10	8	2.5		36	8	6	2		36	11	8	2
	24	8	4	1.5	X						42	12	10	3		42	12	10	3		42	13	9	2.5
	30	9	6	2	ARGENTINE MESQUITE (PROSOPIS ALBA)	15	6.5	2	0.75		48	14	12	3.5	LITTLE LEAF\ FOOTHILLS (M)(CERCIDIUM-MICROPHYLLUM)	15	4	3	0.5		48	16	10	3
	36	10	8	2.5		24	8	4	1.5	SCREW BEAN (M) (PROSOPIS-PUBESCENES)	15	5.5	3	0.5		24	5	4	1	ALEPPO (PINUS HALEPENSIS)	15	6	3	0.75
	42	12	10	3		30	9	6	2		24	8	4	1		30	6	5	1.5		24	9	4	2
	48	14	12	3.5		36	11	8	2.5		30	9	6	1.5		36	8	7	2		30	11	6	3
SWEET (M) (ACACIA SMALLI)	15	5	3	.5		42	13	10	3		36	10	8	2							36	14	7	3.5
	24	8	5	1		48	15	12	3.5		42	12	10	3							42	16	9	4
	30	9	7	1.5							48	14	12	3.5							48	18	10	4.5
	36	10	9	2																				
	42	12	10	2.5																				
	48	14	12	3																				

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Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper					
ARIZONA ASH ((FRAXINUS VELUTINA)	15	8	2	1	CANARY ISLAND PINE (PINUS CANARIENSIS)	15	6	2	0.75	COOLIBAH (EUCALYPTUS–MICROTHECA)	15	7	3	0.75	FEATHER BUSH\ FERN OF THE DESERT (LYSILOMA THORNBURI)	15	5	3	0.75	JACARANDA (JACARANDA ACUTIFOLIA)	15	8	2	0.75					
	24	10	4	1.5		24	9	4	2		24	10	4	1.5		24	6.5	4	1.25		24	9	4	1.5					
	30	12	5	2		30	13	5	3.5	30	12	5	2	30	7	6.5	2	30	10		5	2.5							
	36	14	8	2.5		36	17	5	4	36	15	6	2.5	36	8	6	2.5	36	12		8	3							
	42	15	9	3		42	18	6	4.5	CORK OAK (QUERCUS SUBER)	15	4	2	0.75	FEATHER BUSH\FERN OF THE DESERT (M) (LYSILOMA THORNBURI)	15	4	3	0.75		42	14	8	3.5					
48	14	10	3.5	48	22	7	5.5	24	6.5		3	1.5	24	5		5	1	48	16	9	4								
ARIZONA SYCAMORE (ACACIA BERLANDIER)	15	5	2	1	CAROB (CERATONIA SILQUA)	15	8	2	0.75		30	9	4.5	2.5		30	7	7	1.5	JACARANDA (M) (JACARANDA ACUTIFOLIA)	15	5.5	3	0.5					
	24	7	4	1.5		24	9	4	1.5		36	12	6	3.5		36	8	8	2		24	8	5	0.75					
	30	9	6	2.5		30	10	5	2		42	14	9	4		15	8	2	0.75		30	10	6	1.5					
	36	13	8	3.5		36	12	5	3		48	16	11	4.5		24	9	4	1		36	12	7	2					
ARIZONA SYCAMORE(M) (ACACIA BERLANDIER)	15	6	3	0.5	CHASTE TREE (VITEX ANGUS–CASTUS)	15	5	3	0.75	CORRAL GUM (EUCALYPTUS TORQUATA)	15	6	2.5	0.75	FICUS (M) (FICUS NITIDA)	30	10	5	2	LEMON BOTTLE BRUSH (CALLISTEMON CITRINUS)	15	8	2	0.75					
	24	8	4	1		24	8	3.5	1.25		36	12	6	3		24	9	4	1		24	9	4	1.25					
	30	12	7	2		30	7	5	2	DESERT WILLOW (CHILOPSIS LINEARIS)	15	6	2	0.75		15	5.5	3	0.5		30	10	5	2					
	36	15	9	3		36	8	6	2.5		24	7	4	1.25		24	8	4	1		36	12	6	2.75					
AUSTRALIAN WILLOW\ WILGA (GEIJERA PARVIFLORA)	15	5	3	0.75	CHINESE EVERGREEN ELM (ULMUS PARVIFOLIA)	15	7	2	0.75	DESERT WILLOW (M) (CHILOPSIS LINEARIS)	30	9	6	1.75	FLOODED GUM (EUCALYPTUS RUDIS)	30	10	6	2	MEDITERANEAN FAN PALM (CHAMEROPS HUMULIS)	15	2	2	N\A					
	24	8	4	1.25		24	8	3	1.25		36	10	8	2.25		36	12	8	2.5		24	3	3	N\A					
	30	10	5	2		30	12	6	2		15	5	3	0.75		15	8	3	1		30	4	4	N\A					
	36	12	5.5	2.5		36	14	8	2.5		24	7	5	1		24	10	4	1		36	5	5	N\A					
BOTTLE TREE (BRACHYCHITON– POPULNEUS)	15	6	2	1.5	CHINESE PISTACHE (PISTACIA CHINENSIS)	42	16	9	3.5		30	9	6	1.5	FLOWERING CHERRY (PRUNUS VARIETIES)	15	6	2.5	0.75	MESCAL BEAN\TEXAS MOUNTAIN LAUREL (SOPHORA– SECUNDIFLORA)	15	3	1	0.75					
	24	9	4	2.5		48	18	10	3.75		36	10	8	2		24	9	4	1.25		24	4	2	1					
	30	12	5	4		15	7	2	0.75		ELDARICA (PINUS ELDARICA)	15	6	2		1.5	30	11	8		2	30	5	3	1.75				
	36	15	6	5		24	9	4	1.5		24	10	4	2		36	13	10	2.5		36	6	4	2					
	42	17	8	6		30	10	5	2.5		30	13	4	3		42	15	11	3		15	3	1	0.75					
	48	20	9	6.5		36	12	6	3.5		36	15	5	4		36	17	12	3.5		24	4	2	1					
BAZILIAN PEPPER (SCHINUS– TEREBINTHIFOLLA)	15	8	2	0.75	CHIR PINE\INDIAN LONG LEAF (PINUS ROXBURGHII)	15	5	3	1	EVERGREEN PEAR (PYRUS KAWAKAM)	42	18	7	4.5	HONEY LOCUST (GLEDITSIA TRIACANTHOS INERMIS)	15	8	2	0.75	MEXICAN PALO VERDE\ JERUSALEM (PARKINSONIA ACULEATA)	15	7	3	1					
	24	9	4	1.25		24	8	4	2		48	20	9	5.5		24	9	4	1.5		36	6	4	2					
	30	10	5	2.5		30	11	6	2.5		15	7	2	0.75		30	10	6	2		24	9	6	1.5					
	36	12	8	3		36	15	6.5	3.5		24	9	4	1.5		36	12	8	2.5		30	11	9	2.5					
CALIFORNIA PEPPER (SCHINUS MOLLE)	15	7	2	0.75	See General Notes Page 3	42	17	8	4.5		30	10	6	2.5		42	14	10	3		48	16	12	3.5		36	12	10	3
	24	8	4	1.25		48	20	9	5		36	12	8	3.5		48	16	12	3.5										
	30	10	6	2.5							42	14	10	4															
	36	12	8	3							48	16	12	4.5															

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Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper	Name	Size	Height	Width	Caliper							
MODESTO ASH (FRAXINUS V MODESTO)	15	8	2	1	RAYWOOD ASH\CLARET ASH (FRAXINUS O RAYWOODII)	15	8	4	1	SILK TREE MIMOSA(M) (ALBIZIA JUBRISSIA)	15	5	3.5	0.5	SILK TREE MIMOSA(M) (ALBIZIA JUBRISSIA)	15	6	3	0.75							
	24	10	4	1.5		24	10	3	1.5		24	6.5	5	0.75		24	8	4	1.5							
	30	12	6	2		30	12	5	2		30	6	6	1		30	10	6	2							
	36	14	7	2.5		36	14	8	2.5		36	10	8	2.5		36	12	8	3							
	42	16	8	3		42	16	10	3		SILVER DOLLAR GUM (EUCALYPTUS-POLYANTHEMOS)	15	7	3		0.75	TEXAS EBONY (PITHECELLOBIUM-FLEXICAULE)	15	4	2	0.5					
	48	17	10	3.5		48	18	12	3.5			24	10	4		1.5		24	6	4	1					
NARROW LEAF GIMLET SWAMP MALLET (EUCALYPTUS-SPATHULATA)	15	6	2.5	0.75	RED CAP GUM (EUCALYPTUS-ERYTHROCORYES)	15	6	2.4	0.75	SISSOO (DALBERGIA SISSOO)	15	7	3	0.75	WEEPING BOTTLE BRUSH (CERCIDIUM FLORIDIUM)	15	8	2	0.75							
	24	8	3	1		24	8	4	1.25		24	10	4	1.25		30	7	6	1.5							
											30	12	7	2.5		36	9	8	2							
											36	15	10	3		42	10	10	2.5							
OLEANDER (NERIUM OLEANDER)	15	7	2	0.5	RED GUM (EUCALYPTUS-CAMALDULENSIS)	15	8	3	1	SOUTHERN LIVE OAK (QUERCUS VIRGINIANA)	15	6	2	0.75	WEEPING WILLOW (CERCIDIUM FLORIDIUM)	15	8	2	1							
	24	9	4	1.25		24	10	4	1.75		24	9	4	1.25		24	10	3.5	1.5							
	30	10	5	2							30	11	6.5	2		30	12	5	2							
	36	12	6	2.5							36	13	8	2.75		36	14	7	2.5							
OLIVE TREE (OLEA EUROPAEA)	15	5	3	0.5	RIO GRANDE\FAN TEXAS ASH (FRAXINUS V FANTEX)	15	7	2	0.75	TEXAS EBONY (PITHECELLOBIUM-FLEXICAULE)	15	5	2	0.75	WHITE IRON BARK (EUCALYPTUS-LEUCOXYLON)	15	6.5	2.5	0.75							
	24	8	5.5	1.5		24	9	4	1.25		24	6	3	1.5		24	8	3.5	1.25							
	30	11	9	2		30	12	5	2		30	7	4	2												
	36	12	10	3		36	14	8	2.5		36	9	6	2.5												
	42	14	12	3.5		42	15	9	3.5		42	10	6	3		15	6	2	0.5							
	48	16	14	4		48	16	10	4		48	11	7	3.5		24	8	4	1.25							
ORCHID TREE (BAUHINIA)	15	8	2	0.75	SHAMEL\EVERGREEN (FRAXINUS UHDEI)	15	8	2	1		15	5	2	0.75	YELLOW OLEANDER (THEVETIA PERUVIANA)	15	6	2	0.5							
	24	9	4	1.25		24	10	4	1.5		24	6	3	1.5		24	8	4	1.25							
	30	11	6	2		30	12	5	2.5							15	4	3.5	0.5							
	36	13	7	2.5		36	14	8	3							24	6	5	0.75							
ORNAMENTAL PEAR (PYRUS CALLERYANA)	15	7	2	1	SILK OAK (GREVILLEA ROBUSTA)	15	8	3	1		15	5	2	0.75	GENERAL NOTES:											
	24	10	3.5	1.5		24	10	4	1.25		24	6	3	1.5												
	30	12	6	2.5		30	12	5	2		30	7	4	2												
	36	14	8	3		36	14	8	3		36	9	6	2.5												
	42	16	10	3.5		42	15	9	3.5		42	10	6	3												
	48	18	12	4		48	16	10	4		48	11	7	3.5												
					</																					

### GENERAL NOTES:

1. All trees shall be guaranteed for one year from the date of purchase.
2. "M" designates a multitrunk tree. A multitrunk tree is a tree with more than one main trunk.
3. Caliper is measured at 12" above the ground for trees with caliper greater than 4". For for multitrunk trees and trees with caliper of less than 4", the caliper is measured 6" above thr ground.
4. Size is listed as the box size in inches except for those trees in 15 gallon containers.

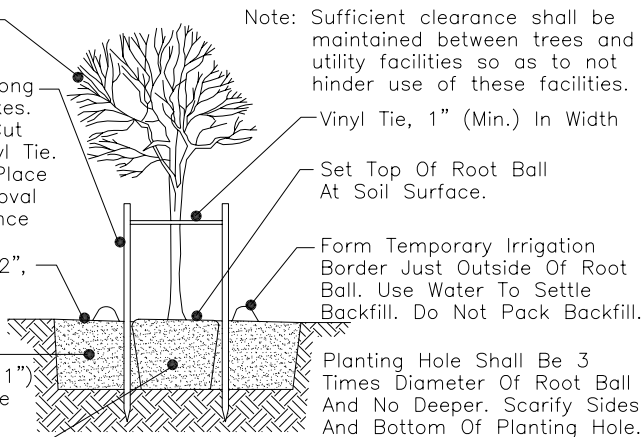
Prune Tree At Time Of Stake Removal.

(2) 2" Diameter x 10' Long Lodgepole Pine Tree Stakes. Bury 3' In Ground And Cut Off Stake 12" Above Vinyl Tie. Stakes Shall Remain In Place For 2 Years Unless Removal Is Approved By Maintenance Director.

Mulch To A Depth Of 1/2", 5' Diameter. Keep Mulch 6" Away From Trunk.

Backfill With Native Soil, (No Rocks Greater Than 1") Apply Fertilizer To Surface Away From Trunk Per Specifications.

Scarify One Side Of Root Ball Prior To Planting.

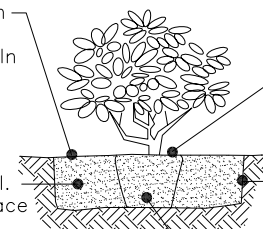


## Tree Planting and Staking <36" Box Or 2" Caliper

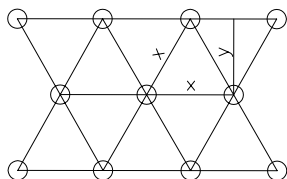
Note: Sufficient clearance shall be maintained between trees and utility facilities so as to not hinder use of these facilities.

Mulch Soil To A Depth Of 2", 2' In Diameter For 1 Gal. Shrubs, 4' In Diameter For 5 Gal. Shrubs. Keep Mulch Away From Plant Base.

Backfill With Native Soil. Apply fertilizer To Surface Away From Trunk Per Specifications.

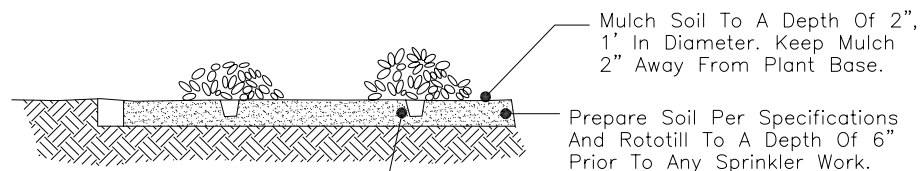


## Shrub Planting

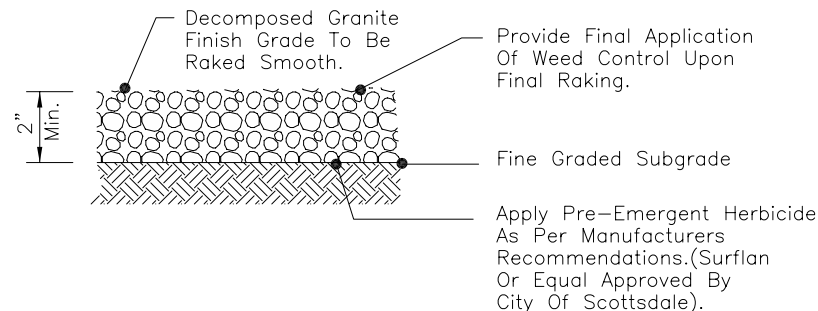


All Groundcovers To Be Planted On Center (See Plant Legend) In A Triangular Pattern.

X = O.C. Dimension As Noted On Plan  
Y = 0.86 Of Dimension "X"



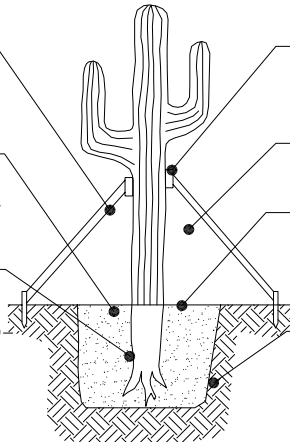
## Groundcovers



(3) 2"x6" BRACES, SPACED EQUALLY AND NAILED TO WOODEN STAKES IN THE GROUND. BRACES TO REMAIN IN PLACE FOR ONE YEAR MIN.

USE GOLF SAND OR 1/4" MINUS DECOMPOSED GRANITE TO BACKFILL PLANTING HOLE. BACKFILL 1/2 OF PIT, THEN COMPACT.

ROOT PRUNE ALL SHEDDED OR DAMAGED ROOTS AND DUST ENTIRE ROOT STRUCTURE WITH WETTABLE SULPHUR (1.5 MIN.) AND STREPTOMYCEIN SPRAY AT PLANTING SITE. ROOT BALL MINIMUM SIZE SHALL BE 24" WITH A MINIMUM ROOT LENGTH OF 6" ON ALL SIDES.



4"x8" - DENSE FOAM AND CARPET PADDED, 8' ABOVE NATURAL GRADE AND NAILED TO BRACE.

STEEL BAND FASTENED WITH 2 TWO LARGE STAPLES PER BRACE.

6-1 GALLON EMITTERS IN 'HULA HOOP' DISTRIBUTION RUN ONCE A MONTH 24 TO 48 HOURS FOR ONE YEAR.

PLANTING HOLE WIDTH SHALL BE 3 TIMES DIAMETER OF ROOTS AND NO DEEPER THAN THE EXTENSION OF THE ROOTS.

## Saguaro Planting

### NOTES:

1. Optimum transplanting season is October thru November.
2. Maintain original plant orientation. The original "North" orientation shall be marked on a rib at a height of 5' above ground level.
3. Water thoroughly at the time of transplanting to remove air pockets and assure proper compaction. Backfill shall be free of injurious rocks and debris.
4. Do not water for 3 weeks after planting.
5. Plant in areas safe from present and future construction activities.
6. Transplant to original depth of bury.

NOTE: Water weekly through the summer.

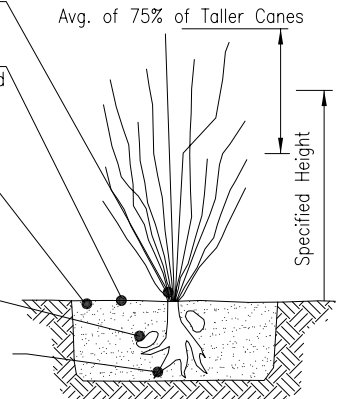
Plant At Depth Which Plant Was Grown.

Planting Mix To Be 1/3 Golf Sand And 2/3 Specified Soil. Pack The Backfill Mix, Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.



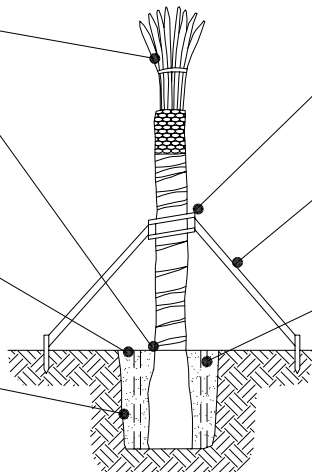
## Ocotillo Planting

Thin Top Fronds, Tie With 1" Vinyl Tie (Remove Ties Prior To Buckling 60-90 Days).

Plant At Depth Which Plant Was Grown. Adjusting Root Ball Depth To Align Finished Height Will Not Be Allowed.

100% Golf Sand Backfill. Settle Backfill With Water, Do Not Pack Backfill.

Planting Hole Width Shall Be 3 Times The Diameter Of Roots And No Deeper Than The Extension Of The Roots.



2" x 4" Blocking Nailed To Brace. Tie To Trunk With 1" (Min.) Vinyl Tie.

(3) 2' x 6" Braces, Spaced Equally And Nailed To Wooden Stakes In The Ground.

4" Perforated PVC, 2 Per Tree. Wrap PVC With Soil Screen Fabric.

## Palm Planting and Bracing Detail

Plant At Depth Which Plant Was Grown.

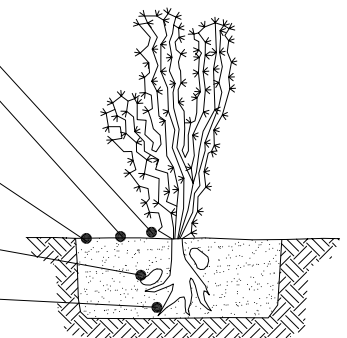
Planting Mix To Be 1/3 Golf Sand And 2/3 Specified Soil. Pack The Backfill Mix, Do Not Use Water To Settle Backfill Mix.

Planting Hole Width Shall Be 3 Times Diameter Of Roots And No Deeper Than The Extension Of The Roots.

Use 6" to 8" Rocks To Anchor Roots.

Root Prune All Shredded Or Damaged Roots And Dust Entire Root Structure With Wettable Sulphur (1.5 min.) At Planting Site.

NOTES: Water weekly through the summer. Maintain original growing orientation.



## Cactus Planting

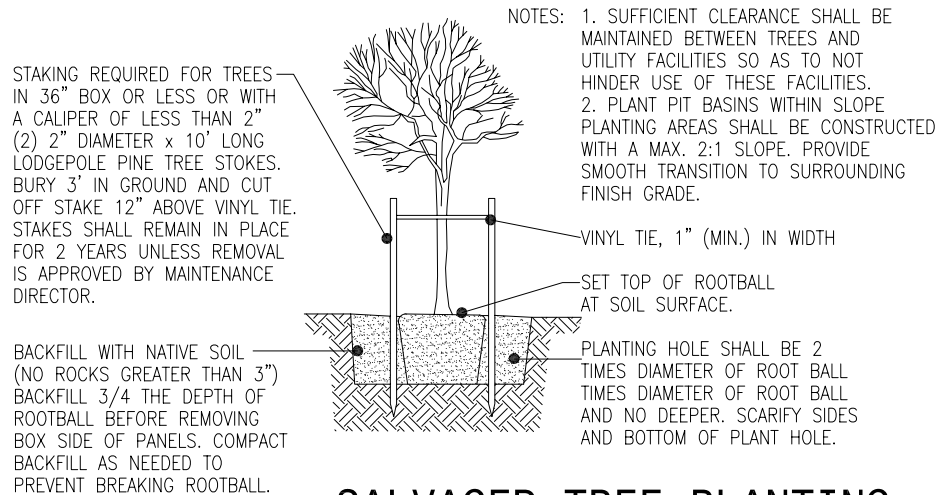
DETAIL NO. G-3610-2 CITY OF GOODYEAR STANDARD DETAIL

APPROVED BY: Goodyear Standards and Policies Committee

7/97

LANDSCAPE DETAILS

DETAIL NO. G-3610-2

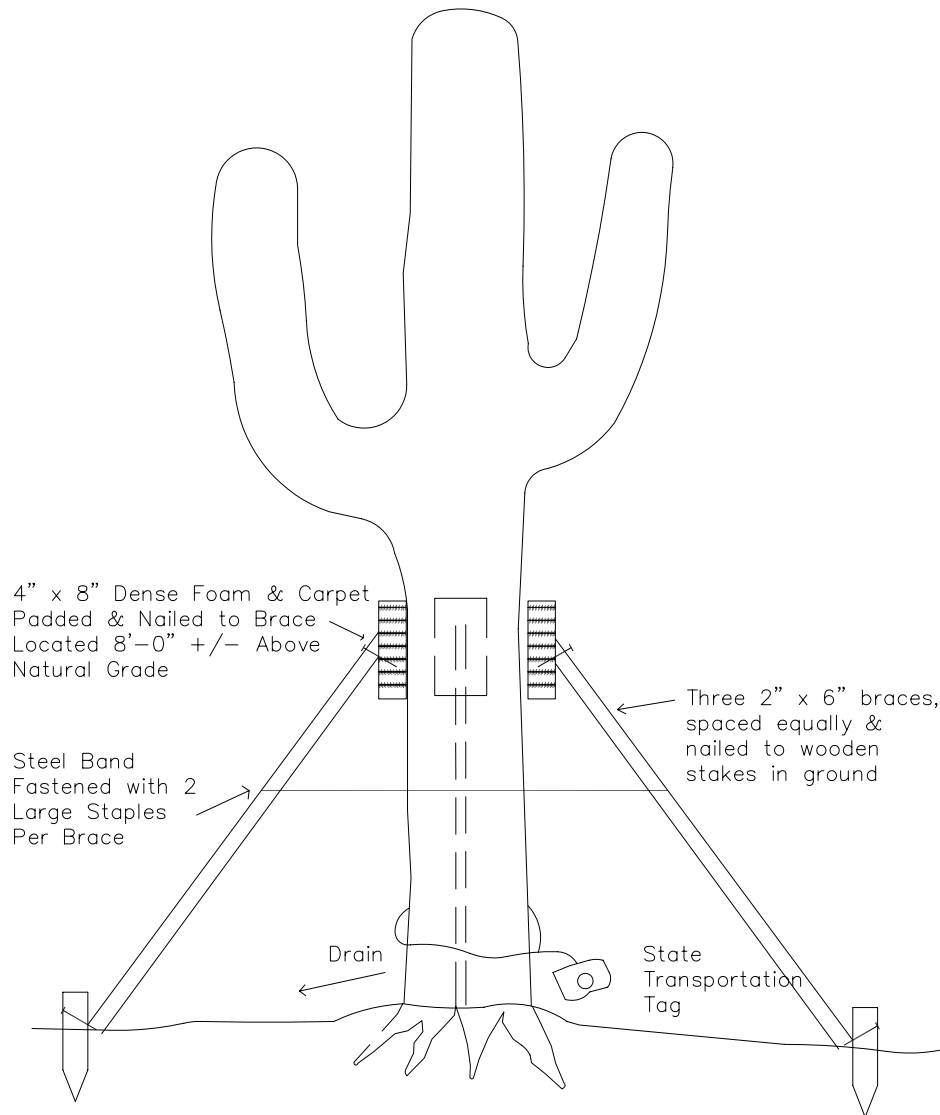


## SALVAGED TREE PLANTING

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1. Saguaros shall be replanted on site in a place where they will be safe from present and future construction activities.
2. A rootball of 24" minimum size shall be retained during transplanting, with root length a minimum of 6" on all sides. Dust all wounds and root cuts with soils sulphur.
3. Saguaros must be transplanted with the same north orientation as they originally grew. "NORTH" to be marked on a rib at a height approximately 5' above grade.
4. Saguaros shall not be transplanted more than 1'-0" below original depth.
5. Saguaros must be watered thoroughly at the time of transplanting to remove air pockets and assure proper soil compaction. Backfill shall be free of injurious rocks and debris.
6. Saguaros over 8' in height must have bracing as per this detail.
7. Saguaros temporarily planted in a nursery must have individually prepared holes; trench planting is not acceptable.
8. A watering maintenance program must be submitted for approval prior to planting being started.
9. Any deviations from the above mentioned procedures must have written approval by a representative of the City of Goodyear.

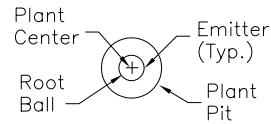
DETAIL NO.  
G-3612

CITY OF GOODYEAR  
STANDARD DETAIL

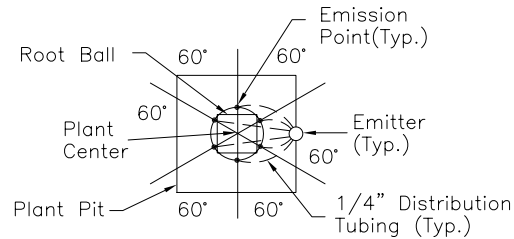
APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

PLANTING DETAILS FOR SAGUAROS

DETAIL NO.  
G-3612

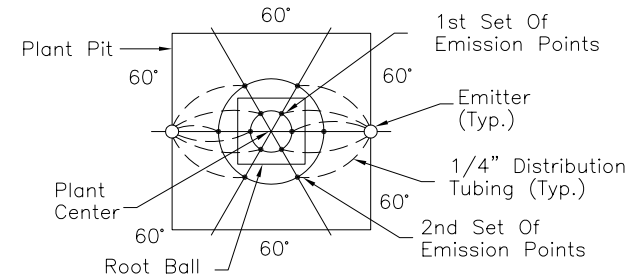


**SHRUB EMITTER  
SINGLE OUTLET**



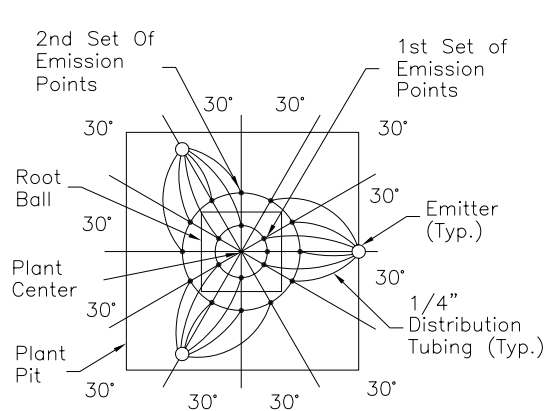
**TREE EMITTER - MULTI OUTLET  
15 GAL TO 42" BOX TREES**

(SEE EMITTER SCHEDULE)



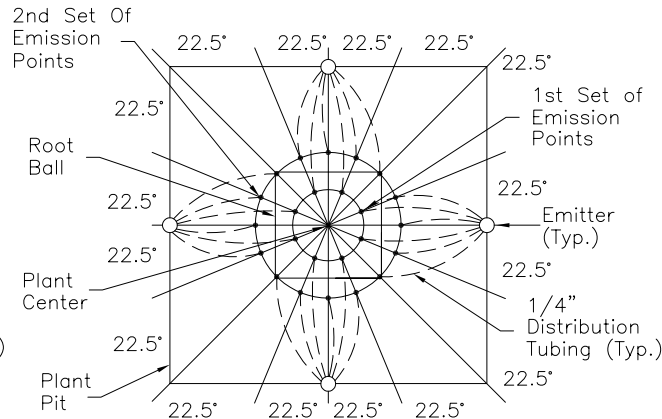
**TREE EMITTER - MULTI OUTLET  
48" BOX TO 60" BOX TREES**

(SEE EMITTER SCHEDULE)



**TREE EMITTER - MULTI OUTLET  
66" BOX TO 84" BOX TREES**

(SEE EMITTER SCHEDULE)

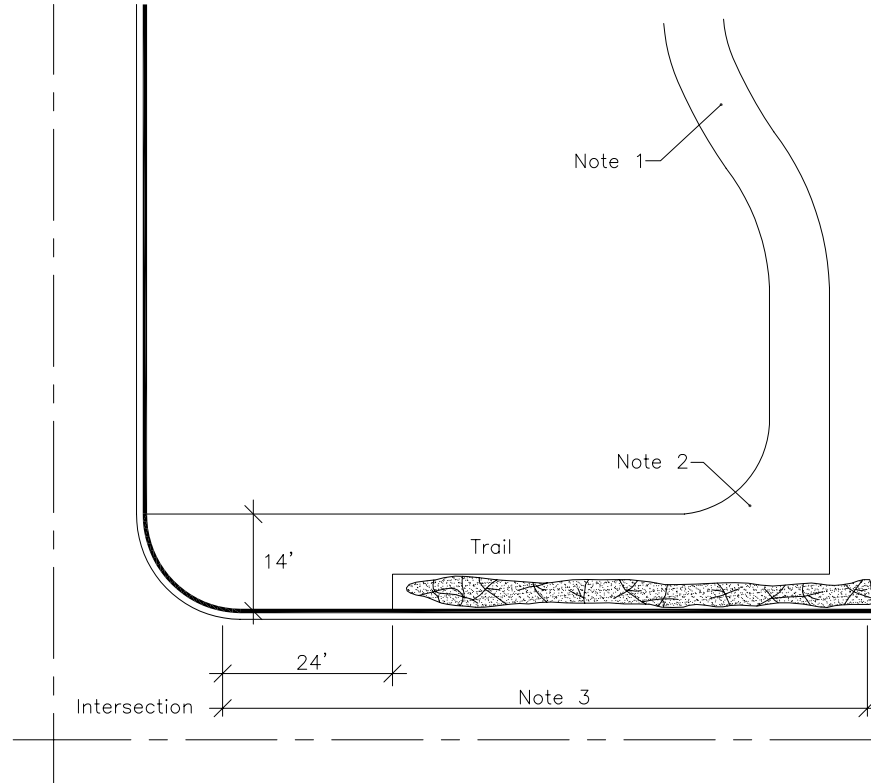


**TREE EMITTER - MULTI OUTLET  
96" BOX TREES**

(SEE EMITTER SCHEDULE)

EMITTER SCHEDULE			
Tree Size	Number Of Multi Outlet Emitters— Outlet Quantity= Emitter GPH Total	Distance From Trunk	
		1st Set Emission Points	2nd Set Emission Points
15 Gal.	1-1 GPH=6 GPH	3 @ 12"	
24" Box	1-1 GPH=6 GPH	4 @ 18"	
30" Box	1-1 GPH=6 GPH	6 @ 21"	
36" Box	1-2 GPH=12 GPH	6 @ 24"	
42" Box	1-2 GPH=12 GPH	6 @ 27"	
48" Box	2-2 GPH=24 GPH	6 @ 12"	4 @ 42"
54" Box	2-2 GPH=24 GPH	6 @ 15"	5 @ 45"
60" Box	2-2 GPH=24 GPH	6 @ 18"	6 @ 48"
66" Box	3-2 GPH=36 GPH	6 @ 24"	12 @ 54"
72" Box			
78" Box	3-2 GPH=36 GPH	6 @ 30"	12 @ 60"
84" Box			
>90" Box	4-2 GPH=48 GPH	8 @ 33"	16 @ 66"





1. Avoid excessive or abrupt meandering. Avoid abrupt grade changes.
2. Widen trails where sudden, sharp changes in alignment occur.
3. The maximum height of landscaping or improvements between the trail and adjacent street shall be 4', 100' from the curb return. Maintain typical sight distance standards at intersections and driveways.
4. Maximum grade shall be 12%

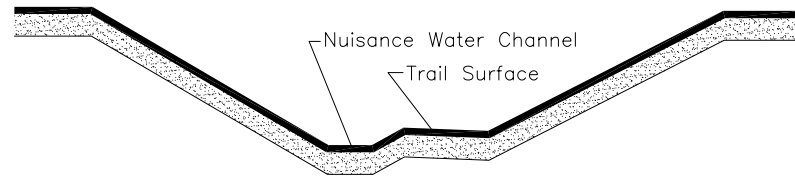
DETAIL NO.  
G-3661

CITY OF GOODYEAR  
STANDARD DETAIL

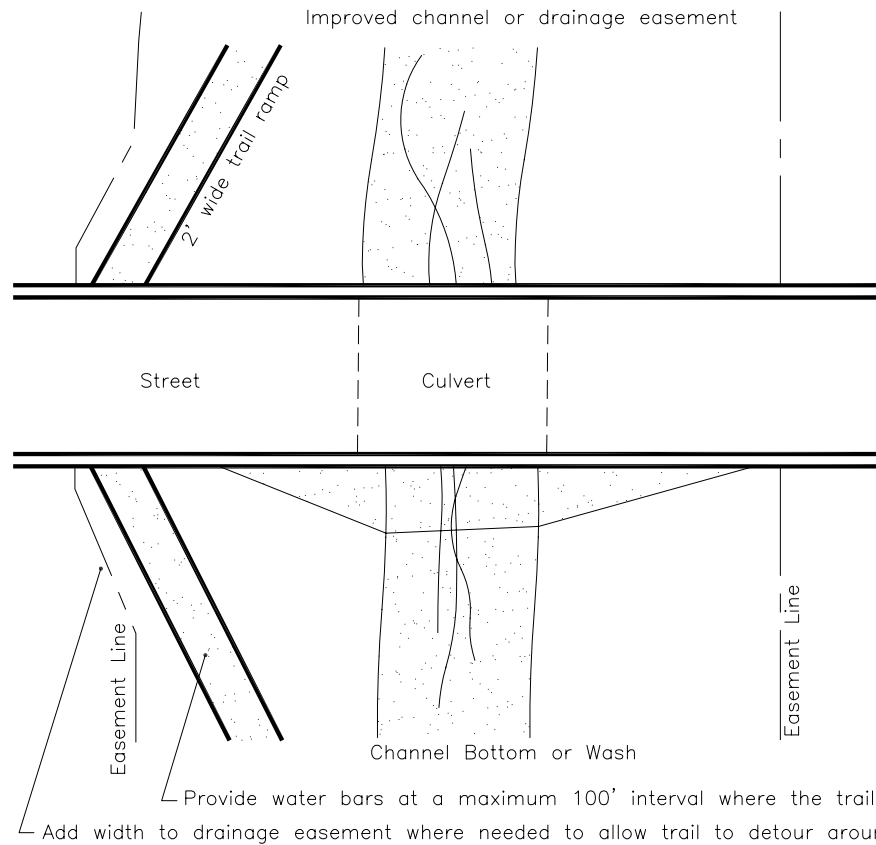
APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

URBAN TRAIL ALIGNMENT

DETAIL NO.  
G-3661

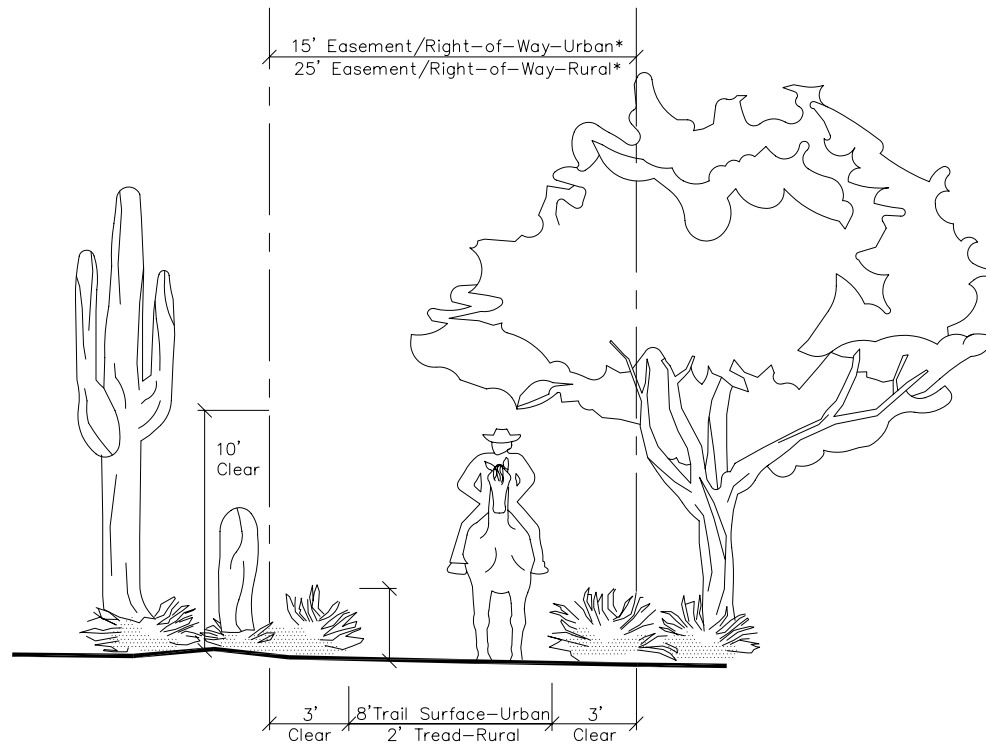


Improved Channel Section



Typical Trail Easement Plan View

DETAIL NO. G-3662	CITY OF GOODYEAR STANDARD DETAIL	APPROVED BY: Goodyear Standards and Policies Committee 7/97	TRAILS IN DRAINAGE CHANNELS OR DRAINAGE EASEMENTS	DETAIL NO. G-3662
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\*Easement or right-of-way needed only where street right-of-way, drainage easement or open space corridor width is not adequate.

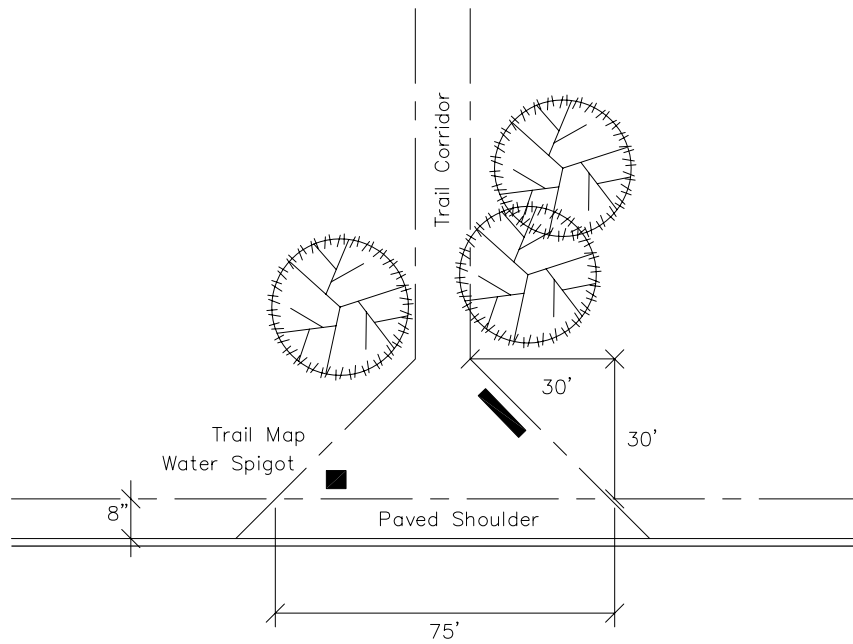
DETAIL NO.  
G-3665

CITY OF GOODYEAR  
STANDARD DETAIL

APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

MINIMUM TRAIL CLEARANCES

DETAIL NO.  
G-3665



Hillside Local or Local Collector Street

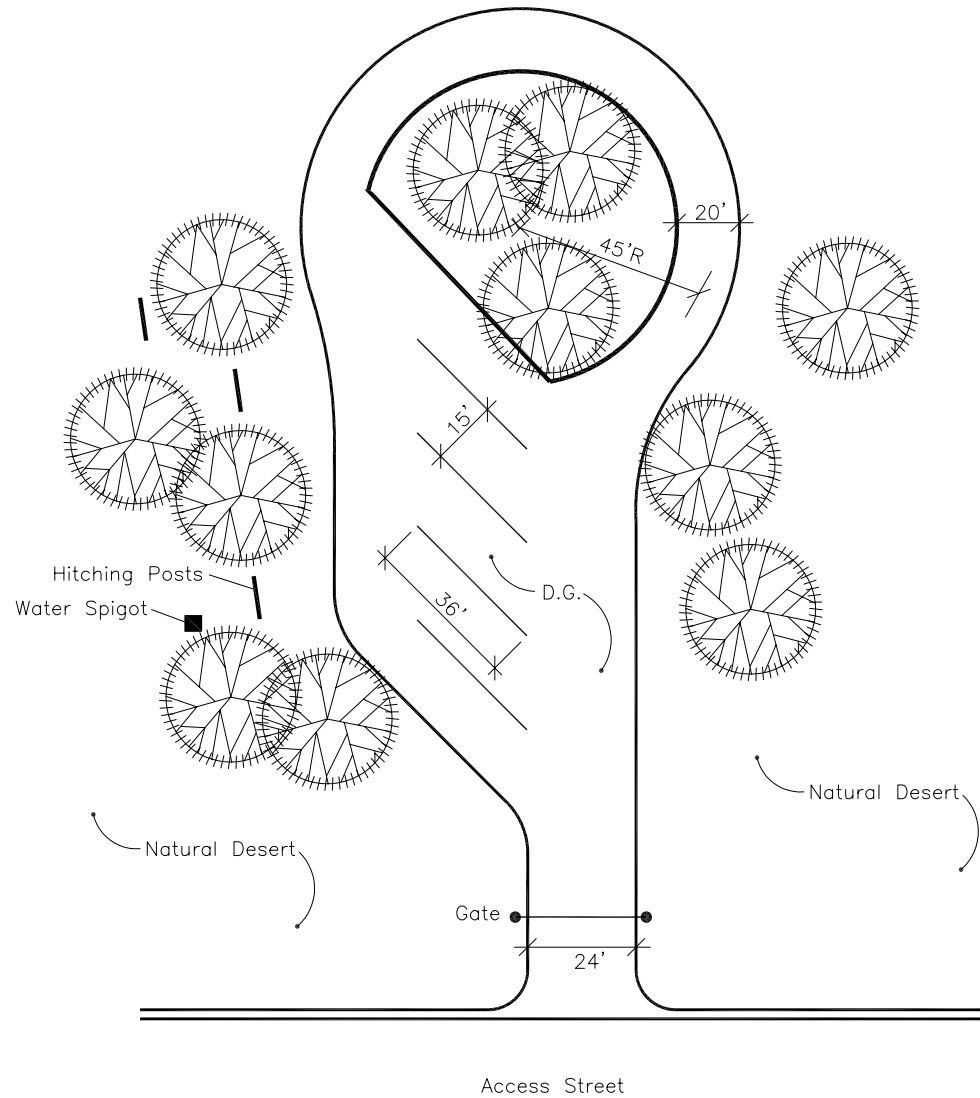
DETAIL NO.  
G-3671

CITY OF GOODYEAR  
STANDARD DETAIL

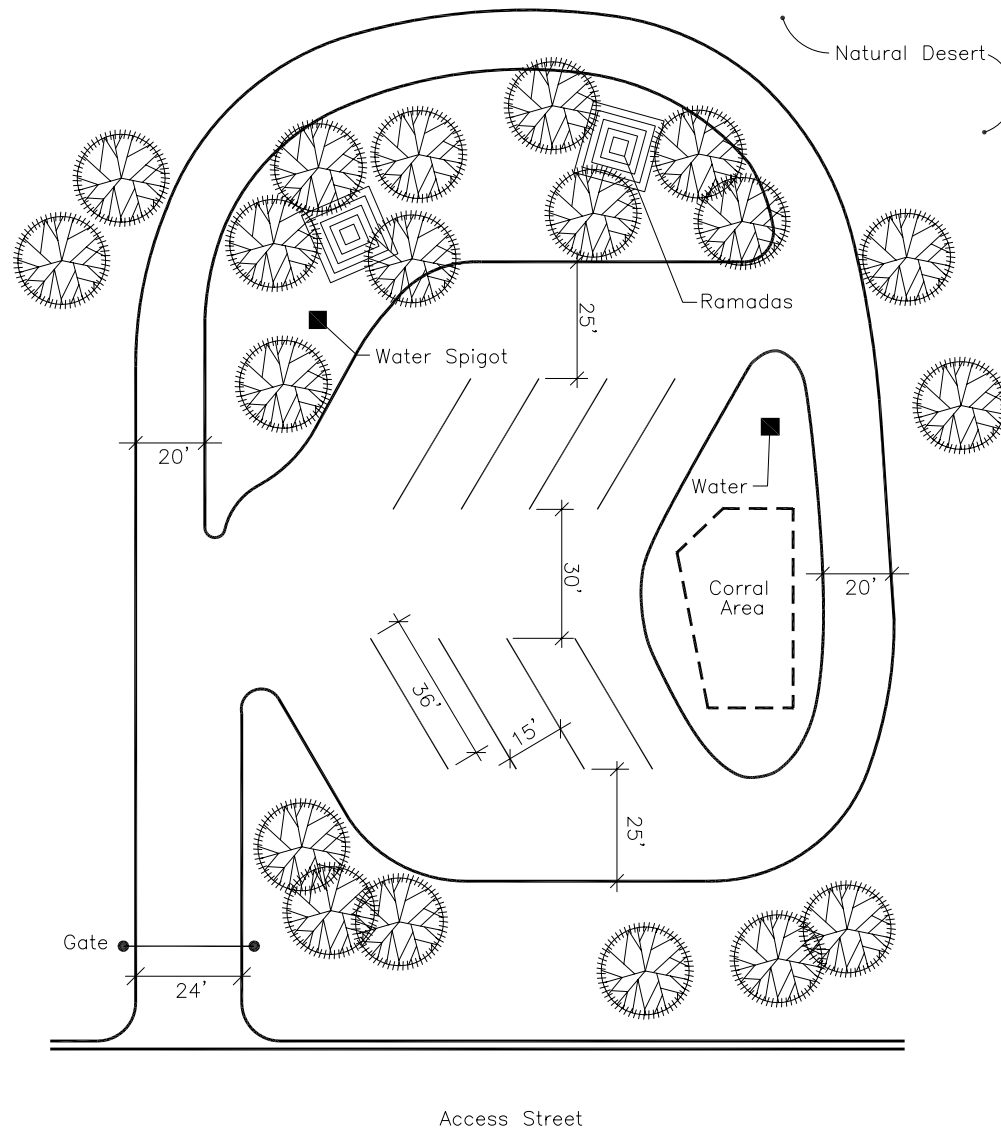
APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

HIKING TRAIL HEAD

DETAIL NO.  
G-3671



DETAIL NO. G-3672	CITY OF GOODYEAR STANDARD DETAIL	APPROVED BY: Goodyear Standards and Policies Committee 7/97	TRAIL HEAD (EQUESTRIAN SUPPORT SITE)	DETAIL NO. G-3672
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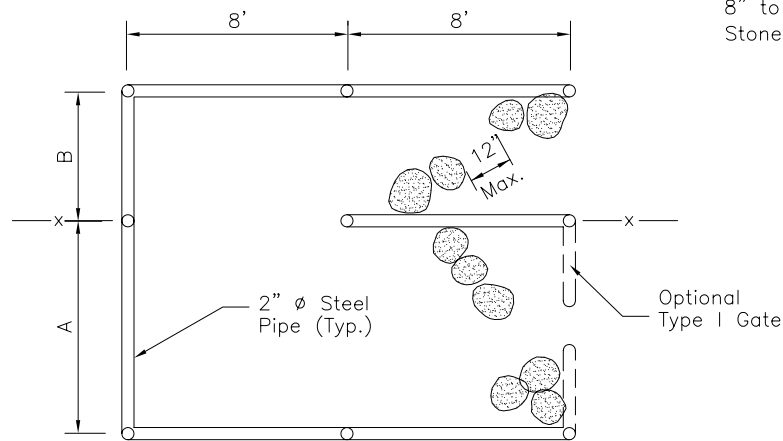


DETAIL NO. G-3673	CITY OF GOODYEAR STANDARD DETAIL	APPROVED BY: Goodyear Standards and Policies Committee 7/97	MAJOR TRAIL HEAD	DETAIL NO. G-3673
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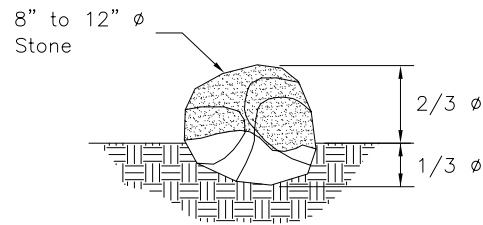


1. All Concrete Shall Be Class "B".
2. Paint Rails Per ADOT Specifications.  
Color Per Plans.
3. Treated Wood Per MAG Section 779.

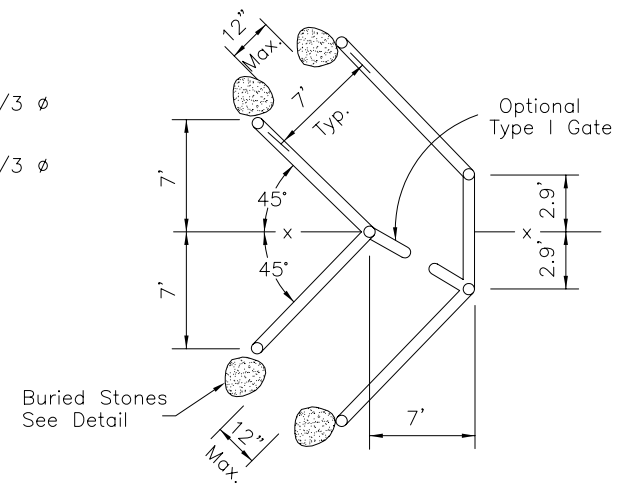




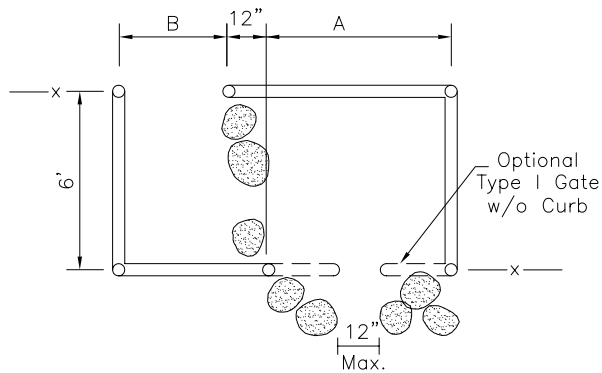
**TYPE II GATE**



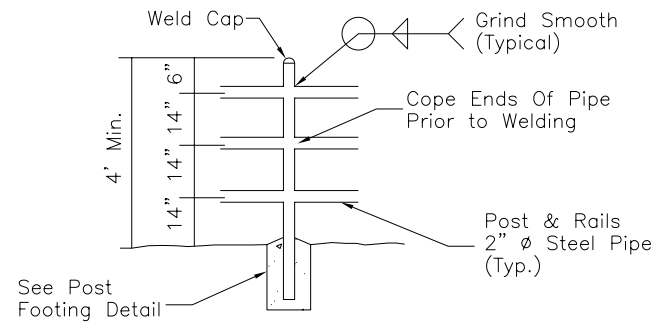
**BURIED STONE  
DETAIL**



**TYPE IV GATE**



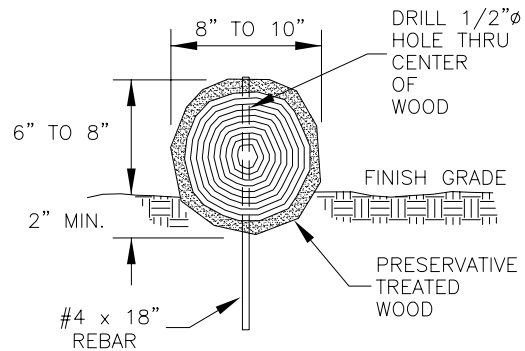
**TYPE III GATE**



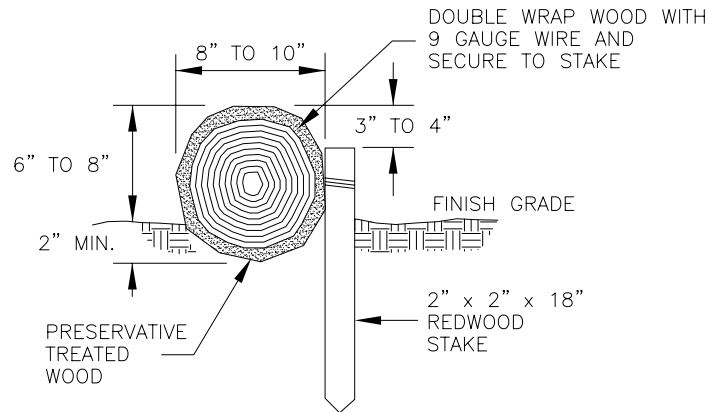
**TYPICAL RAIL ELEVATION  
TYPE II, III & IV GATE**

DETAIL NO. G-3680-2	CITY OF GOODYEAR STANDARD DETAIL	APPROVED BY: Goodyear Standards and Policies Committee 7/97	TRAIL ACCESS GATES	DETAIL NO. G-3680-2
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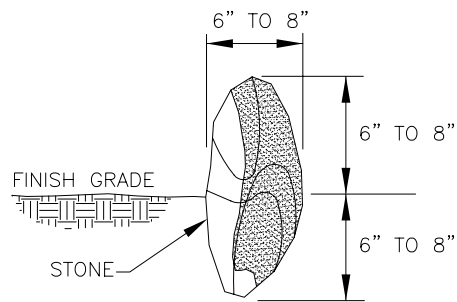
**REBAR SECURED  
WOOD BARS**



**WIRE SECURED  
WOOD BARS**

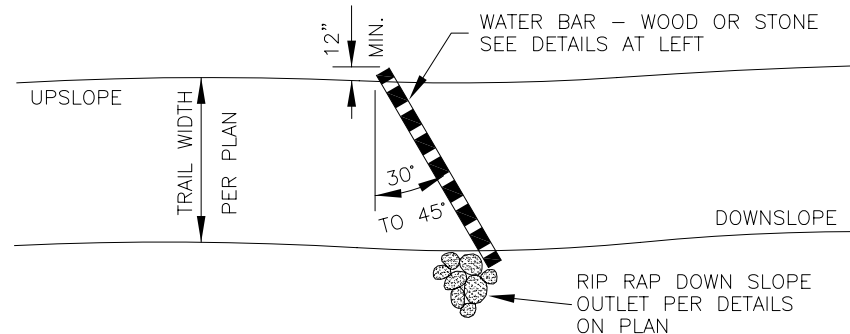
**NOTES:**

1. PROVIDE WATER BARS AT A MAXIMUM 100' INTERVAL WHERE TRAIL GRADE IS EQUAL TO OR GREATER THAN 6% AND AT ALL LOCATIONS AS SHOWN ON PLANS.
2. TREATED WOOD PER MAG SECTION 779.



STAGGER STONES TO PROVIDE  
A CONTINUOUS WATER BAR

**STONE BARS**



**WIRE SECURED  
WOOD BARS**

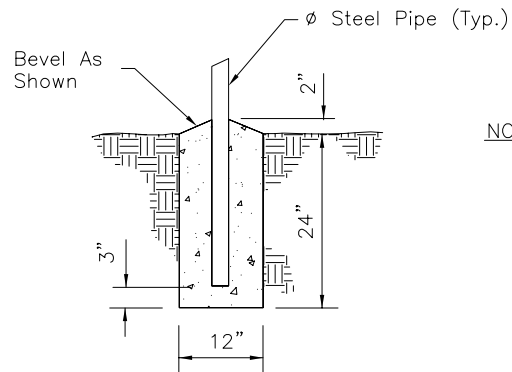
DETAIL NO.  
G-3681

CITY OF GOODYEAR  
STANDARD DETAIL

APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

TRAIL WATER BARS

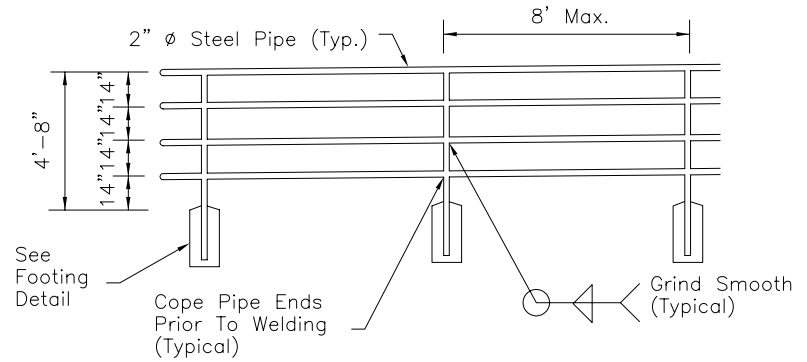
DETAIL NO.  
G-3681



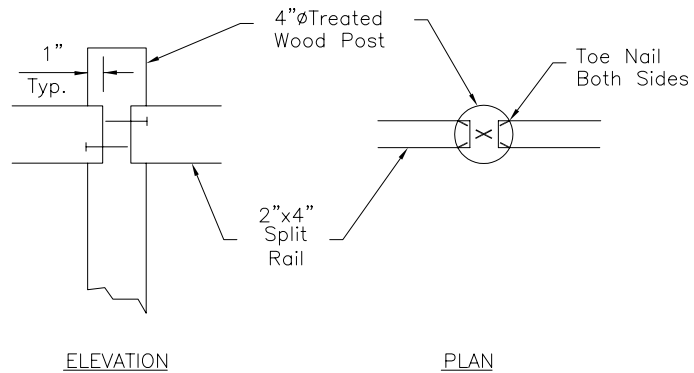
CONCRETE FOOTING DETAIL

NOTES:

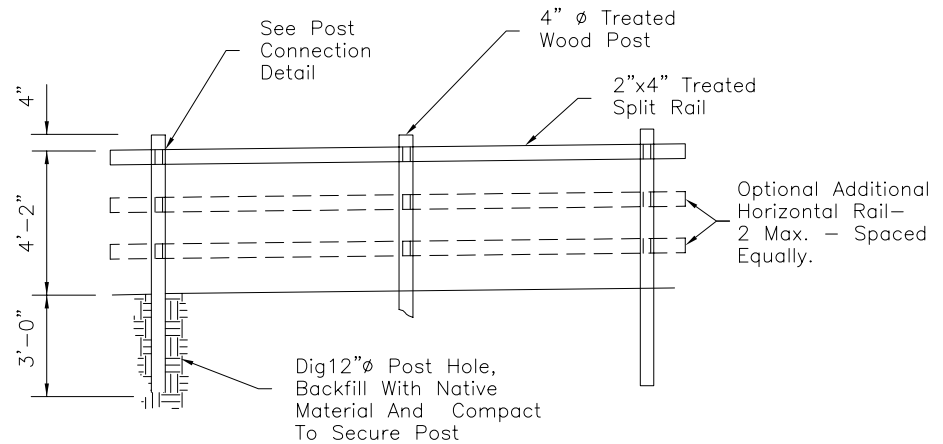
1. Paint Rails Per ADOT Specifications. Color Per Plan
2. Treated Wood Posts Per MAG Section 779.



STEEL RAIL



POST CONNECTION DETAIL



POST AND RAIL

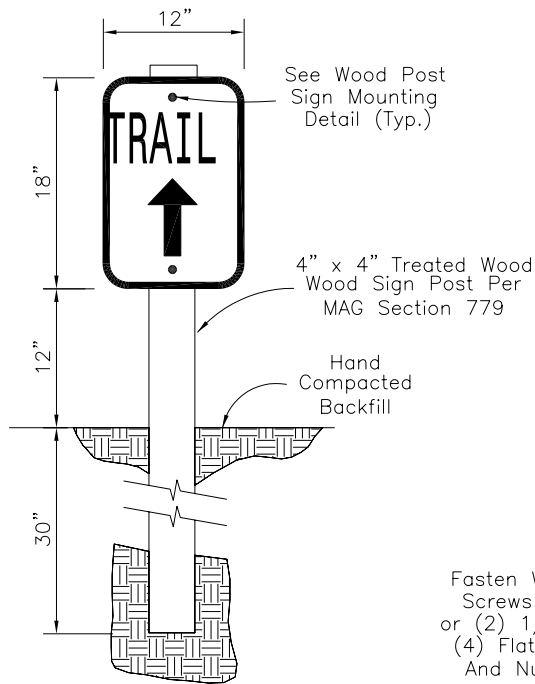
DETAIL NO.  
G-3682

CITY OF GOODYEAR  
STANDARD DETAIL

APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

TRAIL SAFETY BARRIERS

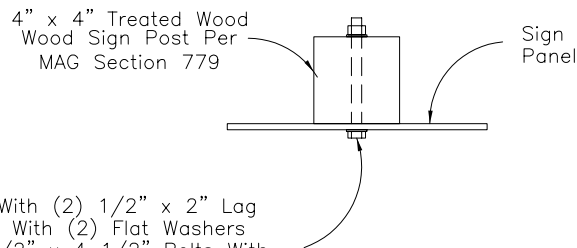
DETAIL NO.  
G-3682



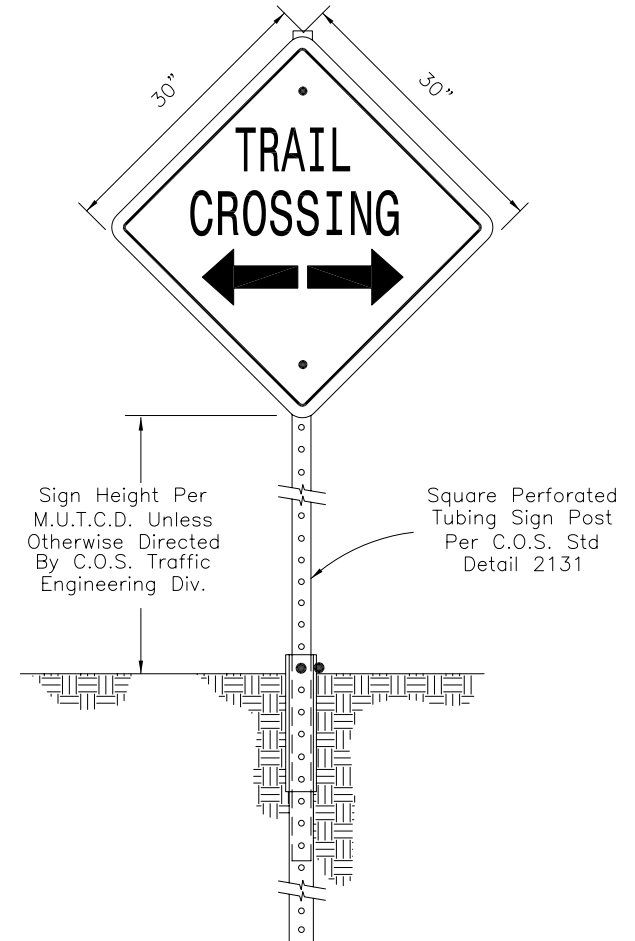
**TRAIL MARKER**

NOTES

1. Signs shall conform to C.O.S. Supplemental Specifications, Section 402.3.
2. Signs to be mounted on square perforated tubing per C.O.S. Std Det 2131 within C.O.S. Right-of-Way. Treated wood post may be used for trail markers located outside C.O.S. Right-of-Way.
3. Legends shall be reflectorized white vinyl sheeting on a green or brown vinyl background unless otherwise approved by the City of Scottsdale.



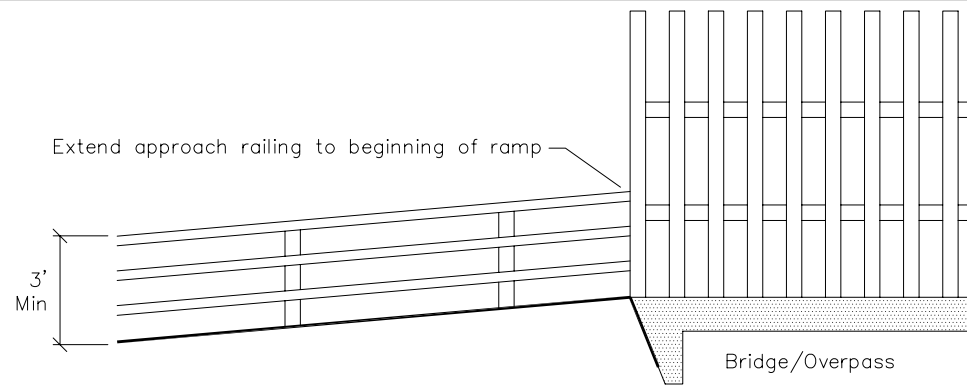
**WOOD POST SIGN MOUNTING DETAIL**



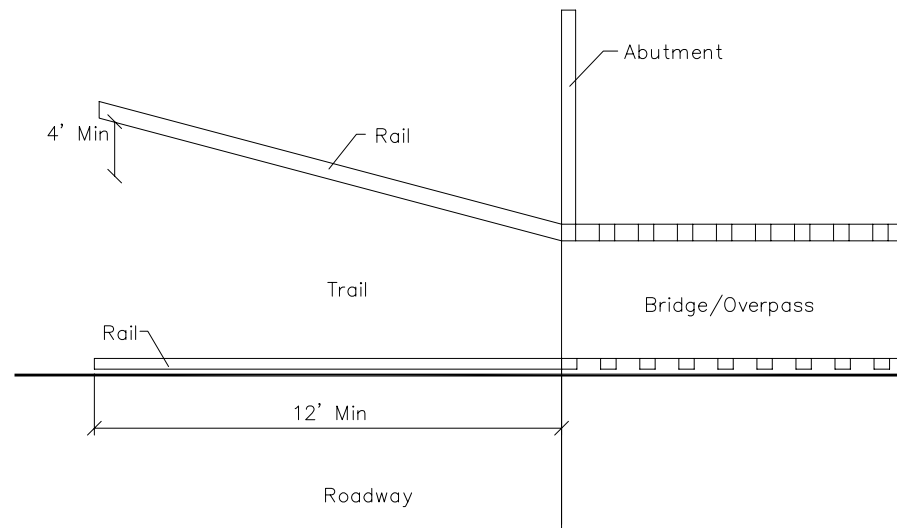
**TRAIL CROSSING SIGN**

DETAIL NO. G-3683	CITY OF GOODYEAR STANDARD DETAIL	APPROVED BY: Goodyear Standards and Policies Committee 7/97	TRAIL SIGNS	DETAIL NO. G-3683
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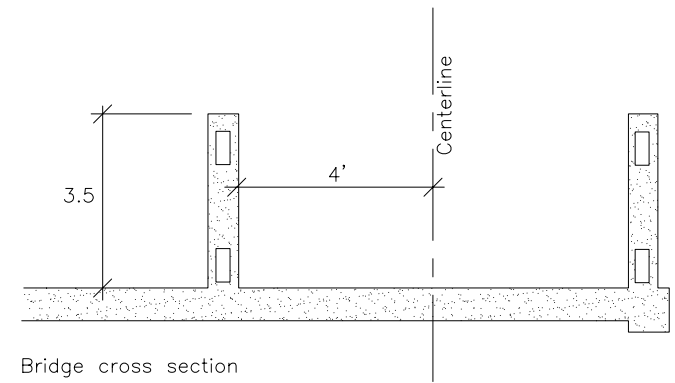
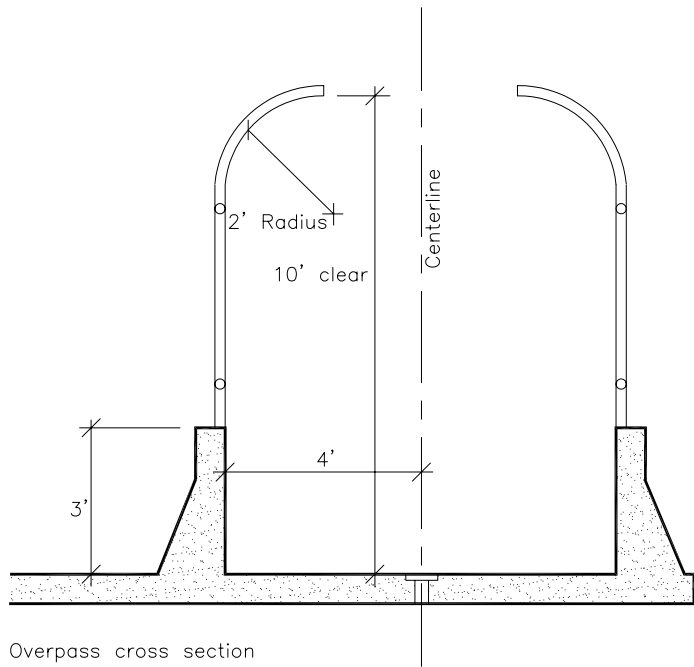


Approach Elevation



Approach Plan

DETAIL NO. G-3695	CITY OF GOODYEAR STANDARD DETAIL	APPROVED BY: Goodyear Standards and Policies Committee 7/97	APPROACHES TO OVERPASSES & BRIDGES	DETAIL NO. G-3695
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DETAIL NO.  
G-3696

CITY OF GOODYEAR  
STANDARD DETAIL

APPROVED BY:  
Goodyear Standards and  
Policies Committee 7/97

OVERPASSES AND BRIDGES

DETAIL NO.  
G-3696